

1994

78th Annual Meeting, 1994. Secretary's Report and Financial Statement

Academy Editors

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ARKANSAS ACADEMY OF SCIENCE

ANNUAL FINANCIAL STATEMENT

(1 JANUARY 1993 TO 31 DECEMBER 1993)

ANNUAL MEETING 8-9 APRIL 1994
ARKANSAS STATE UNIVERSITY, JONESBORO, AR

George Harp
President

James Peck
President-Elect

John D. Rickett
Secretary

Robert Wiley
Treasurer

NAAS Delegate
Secretary's Report

Henry Robison
Historian

FIRST BUSINESS MEETING

Members present: 28

President George Harp called the meeting to order at 1137 hrs.

1. Harp recognized Lynita Cooksey to make announcements concerning the meeting (mixer location, banquet ticket availability, Sigma Xi breakfast location and time, and ASU personnel who are available to help with problems). Cooksey also introduced Dr. Richard McGhee, Dean of the College of Arts and Sciences, who extended the official welcome.
2. Harp recognized John Rickett, Secretary, who presented copies of minutes from the two 1993 Annual Business Meetings and asked for comments and/or corrections in writing before the second business meeting. Rickett moved (2nd: Tom Palko) the acceptance of the minutes. Rickett also reported on membership categories and asked for advice regarding retention of arrears members. Stan Trauth suggested the Secretary send a reminder letter to arrears members.
3. Harp recognized Henry Robison, Historian, for a historical report. This is the 78th annual meeting, and the sixth time at Arkansas State University. Other meetings here occurred in 1952, 1967, 1973, 1980, 1990.

Certificates of Deposit

| | |
|---|--------------------|
| Dwight Moore Endowment (Heritage Bank - A Federal Savings Bank - Monticello - No. 506334.1 - 3.55% Int.) | 2,232.43 |
| Life Membership Endowment (Heritage Bank - A Federal Savings Bank - Monticello - No. 508910 - 3.55% Int.) | 9,562.72 |
| AAS Endowment (Heritage Bank - A Federal Savings Bank - Monticello - No. 509173 - 3.55% Int.) | 5,867.12 |
| TOTAL | \$22,874.24 |

Respectfully Submitted

Robert W. Wiley, AAS Treasurer

FINANCIAL STATEMENT, ARKANSAS ACADEMY OF SCIENCE

INCOME: 1 January 1993 to 31 December 1993

| | | |
|---------------------------------------|-----------------|--------------------|
| 1. INDIVIDUAL MEMBERSHIPS | | |
| a. Regular | 2,685.00 | |
| b. Sustaining | 400.00 | |
| c. Sponsoring | 60.00 | |
| d. Life | 150.00 | |
| e. Associate | 80.00 | |
| | <u>3,375.00</u> | 3,375.00 |
| 2. INSTITUTIONAL MEMBERSHIPS | | 2,200.00 |
| 3. PROCEEDINGS, LIBRARY SUBSCRIPTIONS | | 326.50 |
| 4. PROCEEDINGS, MISC. SALES (UAF) | | 2,141.37 |
| 5. PROCEEDINGS, PAGE CHARGES | | 2,562.50 |
| 6. ANNUAL MEETING | | 653.58 |
| 7. INTEREST | | |
| a. Interest Bearing Checking Account | 111.24 | |
| b. Dwight Moore Endowment | 91.73 | |
| c. Life Membership Endowment | 330.94 | |
| d. AAS Endowment | 199.40 | |
| e. AAS General CD's | 75.11 | |
| | <u>808.42</u> | 808.42 |
| 8. MISCELLANEOUS | | 55.00 |
| 9. ENDOWMENT DONATIONS | | |
| a. Dwight Moore Endowment | 120.00 | |
| b. AAS Endowment | 200.00 | |
| | <u>320.00</u> | 320.00 |
| TOTAL INCOME | | \$12,442.37 |

| | FUNDS | |
|---|-------------------|--------------------|
| Balance on 1 January 1993 | | 22,634.54 |
| Total Income (Page 2) | 12,442.37 | |
| Total Expenses (Page 3) | <u>-12,202.67</u> | |
| Balance for the Year | \$239.70 | 239.70 |
| TOTAL FUNDS AS OF 31 DECEMBER 1993 | | \$22,874.24 |

DISTRIBUTION OF ACCOUNTS

| | |
|--|----------|
| Interest Bearing Checking Account (Union Bank and Trust Co., Monticello, AR) | 5,211.97 |
|--|----------|

Secretary's Report

FINANCIAL STATEMENT, ARKANSAS ACADEMY OF SCIENCE

EXPENSES: 1 January 1993 to 31 December 1993

| | | |
|---|-----------|-------------|
| 1. AWARDS | | |
| a. Arkansas Science Fair Association (#604) | 400.00 | |
| b. Arkansas Junior Academy of Science (#605) | 250.00 | |
| c. Robert Cowherd (#606) | 50.00 | |
| d. Michael Eckles (#607) | 25.00 | |
| e. Connie Baber (#608) | 25.00 | |
| f. E. E. Ward (#609) | 50.00 | |
| g. Mandy Prosser (#610) | 25.00 | |
| h. Edward Boone (#611) | 25.00 | |
| i. Anthony Holt (#612) | 50.00 | |
| j. John Peck, Plaques - Arkansas Science Talent Search (#613) | 165.08 | |
| | 1,065.08 | 1,065.08 |
| 2. PROCEEDINGS | | |
| a. Linda Lee, Editorial Consultant Vol. 46 (#602) | 500.00 | |
| b. Phillip's Litho (Vol. 46) (#614) | 7,810.80 | |
| c. Joy Trauth, Editorial Consultant Vol. 47 (#618) | 500.00 | |
| d. Federal Express (#619) | 22.00 | |
| e. Multigraphics - Reprint 54 copies Vol. 46 (#623) | 1,667.76 | |
| | 10,500.56 | 10,500.56 |
| 3. OFFICE EXPENSES | | |
| a. Secretary's Office, John Rickett (#620) | 415.06 | |
| | 415.06 | 415.06 |
| 4. ANNUAL MEETING EXPENSES (HSU) | | |
| a. George Harp, Plaques (#603) | 81.22 | |
| b. HSU Motor Pool (#617) | 10.00 | |
| | 91.22 | 91.22 |
| 5. NEWSLETTERS | | |
| a. UAM Department of Forest Resources (#600) | 40.07 | |
| b. UAM Department of Forest Resources (#624) | 38.18 | |
| | 78.25 | 78.25 |
| 6. DUES | | |
| a. National Association of Academies of Science (#601) | | 52.50 |
| TOTAL EXPENSES | | \$12,202.67 |

4. Harp recognized Robert Wiley, Treasurer, for a financial report. Wiley referred to available copies of the report, briefly summarized its categories of income and expenses, and invited questions or comments. Wiley moved (2nd: Henry Robison) the approval of the financial report.

5. Harp recognized Stan Trauth, *Proceedings* Editor, for a report. The quality and price have increased, and Trauth hopes the membership will approve. Trauth moved (2nd: Robert Watson) the appropriation of \$500 plus \$200 for editorial assistance be made to support his office. Trauth also requested paper section chairs collect and transfer to him any manuscripts being submitted for publication.

6. Harp announced, in connection with the higher quality and higher price of the *Proceedings*, the Executive Committee will consider raising membership dues.

7. Harp recognized Richard Kluender, *Newsletter* Editor, for a report. He referred to available copies of his report. Kluender also summarized the subsidization of *Newsletter* production by his department and that this support may be lost when a new editor is elected. He moved (2nd: Art Johnson) the Academy appropriate \$1500 to support the *Newsletter's* production during next year.

8. Harp recognized Robert Watson, Chair of Nominations Committee, for a report. Other committee members were Walt Godwin and Dennis McMasters. Richard Kluender and Tom Palko were nominated to the office of Vice President, David Saugey for *Newsletter* Editor, and John Rickett for Secretary. Harp opened the floor to additional nominations. None came, and Harp declared nominations closed and the work of the Nominations Committee are accepted.

9. Harp called for a report from the Science Education Committee, but none came.

10. Harp recognized Mark Draganjac, Chair of Auditing Committee. Other committee members are Robert Engelken, Larry Mink, and Tina Teague.

11. Harp recognized Jimmy Bragg, Chair of Resolutions Committee. Other committee members are Dan Marsh and Mark Karnes.

12. Harp recognized the Constitution Committee; Jim Peck, Chair, Peggy Rae Dorris, and John Rickett. Rickett called attention to copies of the three motions the committee is placing before the membership (Appendix A), briefly explained the justifications, and asked for comments or questions. Rickett moved (2nd: Tom Palko) the approval of these three motions for constitutional revision, and Harp stated that the Executive Committee recommends a "do pass."

13. Harp recognized Tom Palko, Director of Junior Science and Humanities Symposium, for a report (see Appendix B). JSHS is very active and just completed an excellent meeting. Recognition should be given to all winners for their achievements.

14. Harp reported, for Robert Skinner, that the Junior Academy is meeting this weekend, and that Skinner is requesting continued support of \$250 from the Academy. John Peck moved (2nd: Tom Palko) that the support be approved.

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15. Harp recognized Robert Wiley to report, on behalf of Mike Rapp, on the Arkansas Science Fair Association. It is also being held this weekend. Rapp requests continued support of \$400 from the Academy. Moved by Art Johnson, (2nd: John Peck).
16. Harp recognized John Peck, Director, Arkansas Science Talent Search, for a report. The 43rd Annual Arkansas Science Talent Search was held in conjunction with the 53rd Westinghouse Science Talent Search. Winners were:
First Place: Lisa Anne Turner
 Route 5, Box 348
 Sheridan, AR 72150
 "The formation of 4-vinyl guaiacol as a result of yeast contamination in sealed frozen orange juice"
 Sheridan High School; sponsored by Mr. Jim Gunnell
Second Place: Eric Evan Chen
 1411 Stonehenge Pl.
 Little Rock, AR 72212
 "Separation of polycyclic aromatic hydrocarbons by charge-transfer chromatography"
 Central High School; sponsored by Ms. Jacqueline Dyer
Third Place: Jennifer G. Baquial
 1205 Glenda Drive
 Little Rock, AR 72202
 "Modulation of nitric oxide synthase may account for the anticonvulsant and analgesic activities of Cu(II)2(3,5-diisopropylsalicylate)4"
 Central High School; sponsored by Mr. Dennis Brant Peck also requested continued support of \$200 from the Academy (2nd: Henry Robison).
17. John Peck also reported that an *ad hoc* committee, which he chairs, is seeking to consider appropriate ways the annual meetings might be diversified and enhanced. He asked for ideas via a questionnaire to be returned to him.
18. Presidential announcements:
 - a. Doug James (UAF) will chair the Biota Survey Committee, with James Peck and Henry Robison cooperating and, respectively, representing the botanical and zoological interests. James is in the process of computerizing Leo Paulissen's records, and the University of Arkansas Press is interested in publishing the material. The committee will meet at 1700 hrs. today.
 - b. The Development Committee has been chosen and charged to generate ideas for Academy advancement. Ed Griffin, Chair, Ed Bacon, and Dick Kluender comprise the committee and will welcome any ideas.
19. Harp called for any old business. None came.
20. Harp announced future meetings:
 - a. University of Arkansas at Pine Bluff has officially invited the Academy to meet on their campus in 1995. Motion to accept by Tom Palko (2nd: Henry Robison).
 - b. WestArk Junior College is interested in hosting the meeting in 1996, and the Oklahoma Academy of Science is interested in meeting jointly with the Arkansas Academy at that time.
21. Harp: final announcements:
 - a. Sigma Xi breakfast Saturday at the Holiday Inn.
 - b. Reminded section chairs to collect manuscripts being submitted for publication.
22. Motion to adjourn by Tom Palko (2nd: Robert Watson). Meeting adjourned at 1225 hrs.

SECOND BUSINESS MEETING

Members present: 56

President George Harp called the meeting to order at 1200 hrs.

1. Harp recognized Secretary Rickett to revisit the minutes of the 1993 business meetings. Having no comments or corrections, the minutes were approved by voice vote.
2. Harp recognized Doug James for a report on the activities of the Biota Committee. The committee will continue assembling lists, will work toward computerizing existing lists, and approach the University of Arkansas Press for publication.
3. Harp recognized Treasurer Wiley to revisit the financial report. Wiley asked for comments; none came. The Auditing Committee reported the following:

The Auditing Committee, after careful examination, found the financial records of the Academy as prepared by Treasurer Bob Wiley to be accurate and in good order. The committee would suggest, if possible, that in future reports, all transactions involving certificates of deposit be listed on a separate summary sheet (submitted by M. Draganjac, Chair).

A motion to accept the committee's report passed, and voice vote accepted the Treasurer's report.

4. Harp asked Rickett to represent the requests for continued funding, as follows:

\$ 700 for the *Proceedings* Editor's office

1500 for the *Newsletter* Editor's office
 250 for the Junior Academy
 400 for the Science Fair Association
 200 for the Science Talent Search

Rickett asked for comments and moved (2nd: Walt Godwin) the approval of these requests as a block. Passed.

5. Harp asked all new members to stand and be recognized, then all life members to do likewise.
6. Harp asked Robert Watson to review the slate of nominations (Dick Kluender and Tom Palko for Vice-President, David Saugey for *Newsletter* Editor, and John Rickett for Secretary). Harp then asked for nominations from the floor. None came, and Bob Wiley moved (2nd: Ed Bacon) that nominations cease. Passed. Robert Watson moved that the two unopposed candidates be accepted by acclamation. Passed.

Written ballots elected Richard Kluender to the office of Vice-President.

7. Harp recognized Jimmy Bragg for a report from the Resolutions Committee (Appendix C). Resolutions were accepted and approved.
8. Harp reminded the audience of the motion from the First Business Meeting to accept the invitation from UAPB for the 1995 meeting.
9. Harp then recognized David Meeks, who formally invited the Academy to meet on the WestArk Campus in 1996 and to formally approach the Oklahoma Academy of Science for a joint meeting. Motion to accept their invitation was made by Palko and passed.
10. Harp recognized Phoebe Harp for announcement of paper award winners (see Appendix D).
11. Harp recognized Lynita Cooksey for a report on the meeting involvement. There were 258 registrations, 140 banquet participants, and 133 papers presented, of which 62 were student papers.
12. Harp reminded attendees to pick up unclaimed *Proceedings* and return them to their respective campuses, as appropriate.
13. New business:
 - a. Harp reannounced John Peck's survey and invited members to respond with suggestions and comments.
 - b. Harp announced that a graduate assistantship to

study freshwater mussels is available.

- c. Harp recognized Joe Stoeckel (ATU) who gave a brief report on the activities of the new Arkansas River Conservation Committee and invited broader participation.
- d. Harp recognized Rickett, who reviewed the three motions to amend the Constitution proposed by the Constitution Committee. Motions passed as a group without discussion.
14. Harp extended appreciation to all who helped his office during the past year and the local arrangements committee for the current meeting. He then called Dick Kluender to the front and presented a plaque to him of appreciation as outgoing *Newsletter* Editor.
15. Harp then called Jim Peck to the front and passed the gavel to him as the new president. Peck then presented Harp with a plaque of appreciation for his year as president.
16. President Peck cited the Academy's growth as a healthy trend and invited everyone to the 1995 meeting. Peck also introduced the new President-Elect, Peggy Rae Dorris.
17. Peck entertained a motion by Walt Godwin to adjourn (several seconds). Meeting adjourned at 1252 hrs.

-- Respectfully submitted,
 John Rickett, Secretary

APPENDIX A

TO: ARKANSAS ACADEMY OF SCIENCE EXECUTIVE COMMITTEE AND MEMBERSHIP

DATE: 8 APRIL 1994

FROM: CONSTITUTION COMMITTEE (JAMES PECK, PEGGY RAE DORRIS, AND JOHN RICKETT)

MOTIONS FOR CONSTITUTIONAL REVISION

MOTION 1: The insertion of the following item into the By-laws as item 9:

9. In the event an officer, except President, Past-President, President-Elect, and Vice-President, is unable to complete a term, the Executive Committee shall appoint a successor to complete that term, or open a new 5-year term with an election at the next general meeting.

COMMENTARY ON MOTION 1: The recent resigning

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of Harvey Barton from the office of *Proceedings* Editor before expiration of his elected term caused considerable debate within the Executive Committee regarding how to get a new Editor. This motion would give the Executive Committee some guidance and reduce the time spent debating the mechanism.

MOTION 2: The following revision of Appendix A (CONSTITUTIONAL AND STANDING COMMITTEES OF THE ACADEMY):

APPENDIX B

(NOTE: proposed additions are bold-faced; deletions are italicized)

AAS CONSTITUTIONAL COMMITTEES

1. **EXECUTIVE COMMITTEE:** The Executive Committee shall consist of the President, Past President, President-Elect, Vice President, Historian, *Proceedings* Editor, *Newsletter* Editor, Secretary, and Treasurer. The Executive Committee shall make recommendations concerning the policies and activities of the Academy in accordance with the Constitution and By-laws of the Academy. The committee shall meet prior to the first annual business meeting to discuss any motions to be presented at the annual business meeting or any other matters that pertain to the Academy.

AAS STANDING COMMITTEES ESTABLISHED BY THE BY-LAWS

1. **AUDITING COMMITTEE:** The Auditing Committee shall consist of a Chairperson and three additional members. The President shall appoint the Committee prior to or at the first annual business meeting, and it shall function only for that annual meeting. The Committee shall examine the financial records of the Academy, provided by the Treasurer, and report its findings to the Academy at the second business meeting.
2. **AWARDS COMMITTEE:** The Awards Committee shall be named by the Local Arrangements Committee for the upcoming annual meeting. The Awards Committee shall consist of a Chairperson and two as many additional members as the Chair and/or Local Arrangements Committee deem necessary. The Awards Committee shall review evaluate undergraduate and graduate papers presented paper presentations during the annual meeting and make recommendations for the various undergraduate awards established by the Executive Committee.

3. **BIOTA COMMITTEE:** The Biota Committee shall consist of a Chairperson and five additional members, and shall be appointed by the President for undefined terms of service. A term of service may be terminated by either the President or the committee Chair or member. The Biota Committee shall collect, organize, and disseminate taxonomic information on the flora and fauna of Arkansas. Reports shall be made available to the members of the Academy and any other interested party when sufficient information exists.
4. **CONSTITUTION COMMITTEE:** The Constitution Committee shall be appointed by the President whenever a need for constitutional examination exists and consist of the President-elect, Vice President, and one additional member. The President-elect shall serve as the Chairperson. The Committee shall make recommendations on changes in the Constitution and By-laws whenever such changes shall be are deemed necessary.
5. **DEVELOPMENT COMMITTEE:** The Development Committee shall consist of a Chairperson and two additional members and be appointed by the President to undefined terms. Either the President or the committee Chair or member may terminate an appointment. The Development Committee shall promote the growth and development of the Academy by contacting private industries to secure endowment funding to support activities of the Academy.
6. **LOCAL ARRANGEMENTS COMMITTEE:** The Local Arrangements Committee shall consist of a Chair, appointed by the President, and a minimum of two additional members, selected by the Chair. The Local Arrangements Committee shall make the arrangements necessary to host the annual meeting in accordance with the established guidelines for hosting a meeting adopted by the Executive Committee.
7. **NOMINATIONS COMMITTEE:** The Nominations Committee shall consist of a Chairperson and two additional members. The Nominations Committee shall be appointed by the President prior to the annual meeting and shall recommend candidates for office to the members of the Academy for election. Two candidates shall be proposed for Vice President, and one candidate shall be proposed for each of the other offices (Treasurer, Secretary, Historian, and Editors) as their terms expire.
8. **PUBLICATIONS COMMITTEE:** The Publications Committee shall consist of the Editor of the *Proceedings*, who serves as Chair, and two additional

members. The two additional members shall be appointed by the President for undefined terms, and either the President or the committee member may terminate an appointment. The Chair may select as many associate editors as deemed necessary. The *Publications Committee* Editor and associate editors shall review papers submitted for publication in the *Proceedings* and any other publications deemed necessary by the Executive Committee. Papers submitted for publication in the *Proceedings* shall may be forwarded to selected reviewers, and the Committee has jurisdiction over all matters concerning acceptance, rejection, or modification revision of scientific papers.

9. **PUBLICITY COMMITTEE:** The Publicity Committee shall consist of a Chairperson and two additional members. The Committee shall be appointed by the President for undefined terms, and either the President or the committee Chair or member may terminate an appointment. The Publicity Committee shall promote the public image of the Academy with news releases on activities and accomplishments of the Academy. All news releases shall be reviewed and approved by the Executive Committee prior to release to the news media.
10. **RESOLUTIONS COMMITTEE:** The Resolutions Committee shall consist of a Chairperson and two additional members. The Committee shall be appointed by the President prior to or at the first annual business meeting and serve only for that meeting. The Resolutions Committee shall present an appropriate resolution expressing the appreciation of the Academy to all individuals and organizations involved in activities sponsored by the Academy during the year.
11. **SCIENCE EDUCATION COMMITTEE:** The Science Education Committee shall consist of a Chairperson and additional members as deemed necessary by the Chairperson of the Committee. The President shall appoint the Chair and, in consultation with the Chair, additional members for undetermined terms. Either the President or the committee Chair or member may terminate an appointment. The Science Education Committee shall provide information to the Academy on current programs and activities in science education in the state, promote programs, including the Junior Academy, Science/Engineering Fairs, and Science Talent Search(es), and cooperate with state agencies and other educational organizations in the study and development of innovative ideas or activities to improve science education at all levels in the state.

COMMENTARY ON MOTION 2: This proposed revision simply clarifies and adds information regarding the make-up, who appoints, and terms of members of the various standing committees.

MOTION 3: The addition of the following item as Appendix B to the Academy Constitution:

DUTIES OF ELECTED OFFICERS

- a. *President --*
 - i. Calls to order and presides over all Executive and General Business Meetings.
 - ii. Handles official Academy correspondence as pertains to the Office of President, and/or delegates correspondence pertaining to other offices to those officers, as appropriate
 - iii. Asks any other officers and directors of subunits, as appropriate, for advice and assistance
- b. *President-Elect--*
 - i. Serves in the capacity of President should the President be unable to perform his/her duties
 - ii. Assists and advises the President when called on to do so
- c. *Vice President--*

Assists and advises the President and/or President-Elect when called on to do so
- d. *Past President--*

By virtue of his/her service and experience, the Past President assists and advises the President when called on to do so
- e. *Treasurer--*
 - i. Keeps all financial records of the Academy
 - ii. Receives payments of dues, *Proceedings* subscriptions, and any other source of income
 - iii. Manages investments of the Academy with the approval of the Executive Committee
 - iv. Disburses funds for payment of Academy operating expenses and gifts awarded
- f. *Secretary--*
 - i. Keeps all clerical records of the Academy: memberships by approved categories, *Proceedings* subscription, exchange, and abstracting service lists, and other records as deemed necessary and appropriate by the Executive Committee
 - ii. Sends out copies of the *Proceedings* to members (as needed) and as requested by subscription, exchange, and abstracting service lists
 - iii. Corresponds with members and libraries as appropriate regarding payment of dues and payment of invoices for *Proceedings*

- iv. Furnishes mailing labels to other Executive Committee members as requested and appropriate
- v. Furnishes membership information, as appropriate, to anyone requesting
- vi. Corresponds with AAAS (American Association of Academies of Science) to receive or provide information as needed and appropriate

g. *Proceedings Editor*--

- i. Receives manuscripts submitted for publication and cooperates with Associate Editors in the review, revision, and acceptance process
- ii. Prepares the next issue of the *Proceedings* by assembling the final copies of manuscripts accepted for publication
- iii. Works with the Publisher in the technical preparation of the *Proceedings*
- iv. Arranges for the distribution of copies of the *Proceedings* at the next annual meeting

h. *Newsletter Editor*--

- i. Receives and compiles news items regarding Academy operations, Executive Committee decisions, and general Academy activities and involvements
- ii. Prepares two issues of the *Newsletter* per year, the contents of which are subject to approval and revision by the Executive Committee--
 - a. the "Fall" issue shall contain general news about Academy activities and general information about the next annual meeting
 - b. the "Spring" issue shall contain more specific information about the next annual meeting, an abstract form, meeting reservation/registration form(s), and specific news about achievements of Academy members
- iii. Distributes copies to all Academy members and prospective members, as directed by the Executive Committee

i. *Historian*--

- i. Keeps historical records of Academy meetings and other activities
- ii. Reports on past activities at the annual meeting, as the presiding officer directs, and as the Executive Committee requests

COMMENTARY ON MOTION 3: In the past, we have been comfortable with the officers' titles sufficiently conveying their duties. Anticipating the possibility of problems or misunderstandings, we probably should document the major duties or expected functions of each elected officer.

IMPLEMENTATION--

These items will be presented for discussion at the

First Business Meeting on 8 April 1994 and (possibly) further discussed and voted on during the Second Business Meeting on 9 April 1994. The approval and implementation of Motion 1 will cause items in the By-laws currently numbered 9 through 14 to be renumbered 10 through 15.

APPENDIX B

ARKANSAS JUNIOR SCIENCE AND HUMANITIES SYMPOSIUM TOM PALKO, DIRECTOR

The 28th Arkansas Junior Science and Humanities Symposium was held on the Arkansas Tech University campus on March 18-20, 1994. There were 119 students and 25 teachers in attendance, representing all regions of Arkansas. Activities during the symposium included talks by scientists about their research, seminars, tours, a field trip for the student delegates, and a workshop for teachers. The delegates were entertained with two one-act plays performed by the ATU Theater Department. They also enjoyed a keyboard concert with selections performed on the harpsichord, piano, and pipe organ.

The main event of the meeting occurred Saturday morning when 15 students were given the opportunity to present their research papers. Four of the presenters won a full freshman scholarship at ATU. Six won a trip to the National JSHS which will be held the last week in April at NCSU and Triangle Research Center, Raleigh, NC. Anna Terry was selected as the outstanding presenter, and she will compete at the National JSHS meeting for a free two-week tour of London, England. The title of her paper was, "The Fractal Geometry of Landforms: A Report on a Mathematical Investigation." Anna is a 15-year-old sophomore at Southside High School, Fort Smith, Arkansas.

APPENDIX C

RESOLUTIONS

BE IT RESOLVED, that we, the members of the Arkansas Academy of Science, offer our sincere thanks to Arkansas State University at Jonesboro for hosting the 1994 meeting of the Arkansas Academy of Science. In particular, we thank the local arrangements committee for an outstanding job of organizing the meeting: Lynita Cooksey, Chairperson; Phoebe Harp; Julia Bollinger; Jim Bednarz; Marty Huss; Susan Cady; J. D. Wilhide; and Larry Mink. Appreciation is expressed for the use of ASU's excellent facilities and the hospitality shown us by all ASU personnel. The banquet was excellent, as was Dr. Ken Paige and his dynamic presentation, "Plant-Animal Interactions and the Dynamic Nature of Plants."

The Academy recognizes the important role played

by the various section chairpersons and expresses appreciation to: Jerry Darsey, Susan Cady, and Edward Bennett (Chemistry); Leon Richards and Dennis McMasters (Botany); Lawrence Hinck and William Willingham (Biomedical); Betty Cochran (Herpetology); Robert Watson (Invertebrate Zoology); William Braithwaite and Robert Engleken (Physics, Computers, Energy, Geology); Roland McDaniel and Alan Price (Aquatic Biology); Andrew Sustich (Geology, Astronomy, Physics); Ronald Johnson and David Gilmore (Microbiology, Cellular Biology); Alan D. Christian (Science Education, Toxicology, Water Quality); Michael Harvey and Renn Tumblison (Ecology, Conservation); Todd Wiebers and David Saugey (Birds, Mammals).

A special thanks is owed the individuals who devoted considerable time and energy to judging student papers: Anthony Holt and Earl Hanebrink (Undergraduate Life Sciences); Roger Buchanan and Julia Bollinger (Graduate Life Sciences); David Chittenden and Ed Gran (Undergraduate Physical Sciences); Norman Trautwein and Andy Sustich (Graduate Physical Sciences).

We express gratitude to the various directors of the science and youth activities which are supported by the Academy: Tom Lynch (Chairperson, Science Education Committee); Mike Rapp (President, Arkansas State Science Fair Association); Tom Palko (Director, Junior Science and Humanities Symposium); John Peck (Director, Science Talent Search); and Robert and Raynell Skinner (Co-Directors, Arkansas Junior Academy of Science).

We wish to thank all those individuals who served as directors at science fairs and Junior Academy meetings: Kathryn Shinn and Marian Douglas (Central Region); Veryl Board and Kathy Campbell (Northcentral Region); Larry Minck and Ron Johnson (Northeast Region); John Hehr (Northwest Region); Wayne Everett (Southcentral Region); Guy Nelson and Deborah Phillips (Southeast Region); Tim Daniels (Southwest Region); Mike Rapp, Robert and Raynell Skinner (State Meeting, UCA, Conway).

The continued success of the Academy is due to its strong leadership. We offer sincere thanks to our officers for another excellent year: George Harp (President), James Peck (President-Elect), Peggy Dorris (Vice President), John Rickett (Secretary), Robert Wiley (Treasurer), Art Johnson (Past President), Stan Trauth (*Proceedings* Editor), Richard Kluender (*Newsletter* Editor), and Henry Robison (Historian). In addition, the Academy expresses appreciation to all those individuals who have contributed their time and efforts on various committees of the Academy.

Finally, we congratulate all those who presented papers at this meeting. Student participants are especially recognized, since their continued efforts will be direct-

ly responsible for the future success of the Academy, and the continuation of science education and research in Arkansas.

Resolutions Committee
J. D. Bragg, Chair
Daniel L. Marsh
Mark Karnes

APPENDIX D

PAPER PRESENTATION AWARDS

Life Sciences - undergraduate:

- First-- Reproductive structures of adult cottonwood borer beetles *Plectrodera scalator*. Jason A. Kilgore, Hendrix College, Conway, AR, and Steven K. Goldsmith, Tulsa University, Tulsa OK.
- Second-- Species packing in a North Carolina creek. James J. English and Alvan A. Karlin, University of Arkansas at Little Rock, and Laurie D. Lacer, Biotechnical Services, Inc., North Little Rock, AR.
- Third-- Nectar production in *Lobelia puberula*: Undergraduate research on native plants and their pollinators. Michael J. Boyd, Lachi R. Kishen, and William H. Baltosser, University of Arkansas at Little Rock, AR.

Life Sciences -- graduate:

- First-- Water quality of an Ozark stream receiving urban point and non-point pollution: Physicochemical parameters. Phillip B. Drope and James J. Daly, University of Arkansas for Medical Sciences, Little Rock, AR.
- Second-- Selected community characteristics of freshwater mussels (Unionacea) in the Cache River, Arkansas. Alan D. Christian, John L. Harris, William R. Posey, and George L. Harp, Arkansas State University, State University, AR.
- Third-- A comparison of macrophytes of two small northwest Arkansas reservoirs. John J. Sullivan and A. V. Brown, University of Arkansas at Fayetteville, AR.

Physical Sciences -- undergraduate:

- First-- Tetraethylene glycol-based electrolytes for high temperature electrochemical deposition of compound semiconductors. Chris Poole, Robert D. Engelken, Brandon Kemp, and Jason Brannen, Arkansas State University, State University, AR.
- Second-- Storm dominated channel sequences on a shallow marine shelf: Middle Morrowan of northwestern Arkansas. Kimberly R. Jones,

University of Arkansas at Fayetteville, AR.

Third-- Studies of Copper(II) 2-hydroxy-5-N, N-diethylsulfonamide benzoate. **Elsie Williams**, Shaheen Khan, Israt J. Chowdhury, and William M. Willingham, University of Arkansas at Pine Bluff, AR.

Physical Sciences -- graduate:

First-- Evaluation of photodiode arrays in rocket plume monitoring and diagnostics. **D. H. Snider**, M. K. Hudson, R. B. Shanks, and R. Cole, University of Arkansas at Little Rock, AR.

Second-- Multisite microprobes for electrochemical recordings in biological dynamics. **G. Screenivas**, S. S. Ang, R. M. Ranade, A. S. Salian, and W. D. Brown, University of Arkansas at Fayetteville, AR.

Third-- An integrated data acquisition and data analysis system for high energy physics. **Charles A. Byrd**, Christine A. Byrd, and W. J. Braithwaite, University of Arkansas at Little Rock, AR.

APPENDIX E

STATE SCIENCE FAIR AND JUNIOR ACADEMY OF SCIENCE 1994 ANNUAL REPORT

Below are shown the numbers of students who participated in the Arkansas science fairs that are affiliated with Science Service and the numbers of students who participated in the State Junior Academy of Science meeting for 1994 (see below for the locations of the fairs). The senior division is for students in grades 9-12, and the junior division is for students in grades 8 and below. Since statewide competition is not allowed for students before high school, there are no "junior divisions" for the state fair or junior academy.

| | Cent | NCen | N.E. | N.W. | SCen | S.E. | S.W. | State | JrAcad |
|--------|------|------|------|------|------|------|------|-------|--------|
| Senior | 134 | 65 | 120 | 100 | 140 | 156 | 92 | 256* | 63* |
| Junior | 120 | 68 | 123 | 105 | 131 | 93 | 526 | n/a | n/a |

*54 schools

For 1994, the locations and dates for the events and the individuals serving as directors were:

| | | <u>Science Fair</u> | <u>Junior Academy</u> |
|------------------------------|--------------|---------------------|-----------------------|
| Central Region | UAMS | Kathryn Shinn | Marian Douglas |
| Saturday, March 5 | | Lonoke H.S. | U.A.L.R. |
| North Central | Batesville | Veryl Board | Kathy Campbell |
| Friday, March 25 | | Arkansas College | Newark H.S. |
| North East | Jonesboro | Larry Mink | Ron Johnson |
| Friday, Saturday, March 4, 5 | | Ark. State U. | Ark. State U. |
| North West | Fayetteville | John Hehr | |
| Friday, March 18 | | Univ. of Ark. | |
| South Central | Arkadelphia | Wayne Everett | Wayne Everett |
| Friday, March 8 (sic) | | Ouach. Bap. U. | Ouach. Bap. U. |
| South East | Monticello | Guy Nelson | Deborah Phillips |
| Friday, March 11 | | U of A-Mont. | DeWitt H.S. |
| South West | Camden | Tim Daniels | |
| Friday, March 11 | | SAU-Tech Station | |
| State | Conway | Mike Rapp | M/M Bob Skinner |
| Friday, Saturday, April 8, 9 | | Univ. Cen. Ark. | U.A.M.S. |

MEMBERS 1994

| LAST NAME | FIRST MI | INSTITUTION |
|--------------|--------------|---|
| Adams | Al | Univ. of Arkansas at Little Rock |
| Addison | Stephen R. | University of Central Arkansas |
| Al-Khayri | Jameel M. | University of Arkansas/Fayetteville |
| Bacon | Robert | University of Arkansas at Fayetteville |
| Bailey | Claudia | University of Arkansas at Fayetteville |
| Baker | Max L. | University of Arkansas/Medical Sciences |
| Ball | Kenneth M. | El Dorado Public Schools |
| Baltosser | William H. | University of Arkansas at Little Rock |
| Barber | Gwen | |
| Basford | Adelphia M. | Henderson State University |
| Bass | Ralva | University of Central Arkansas |
| Bates | Vernon | |
| Battles | Les | Arkansas State University |
| Beadles | John Kenneth | Arkansas State University -- retired |
| Bennett | J. Edward | Arkansas State University |
| Benson | Ann Marie | University of Arkansas/Medical Sciences |
| Bickle | Elaine | Univ. of Arkansas at Little Rock |
| Bowman | Leo H. | Arkansas Tech University |
| Bragg | Jimmy D. | Henderson State University |
| Bragg | Ann T. | Garland County Community College |
| Breen | David | Mississippi County Community College |
| Brown | Art | University of Arkansas |
| Brown | William D. | University of Arkansas at Fayetteville |
| Buchanan | Roger A. | Arkansas State University |
| Burnside | Gaylen | University of Arkansas at Little Rock |
| Cady | Susan | Arkansas State University |
| Cartwright | Michael E. | Arkansas Game & Fish Commission |
| Chapman | Stanley L. | University of Arkansas at Fayetteville |
| Chowdhury | Aslam H. | University of Arkansas at Pine Bluff |
| Cisar | Cindy | University of Arkansas at Fayetteville |
| Clayton | Frances E. | University of Arkansas at Fayetteville |
| Cloud | Gary | University of Arkansas |
| Cochran | Betty S. | U.S. Forest Service |
| Cole | David | Harding University |
| Collins | Joseph T. | University of Kansas |
| Cooksey | Lynita | Arkansas State University |
| Cordova | Robert M. | Cordco Consulting |
| Crisp, Jr. | Robert M. | University of Arkansas at Fayetteville |
| Culwell | Donald | University of Central Arkansas |
| Dalske | Fred | University of Central Arkansas |
| Daly | James J. | University of Arkansas/Medical Sciences |
| Daniels | James T. | Southern Arkansas University/Tech Br. |
| Daster | Robert H. | Arkansas Highway & Transp. Dept. |
| David | Stanley N. | Arkansas State University |
| Davis | Jerry W. | USDA, Forest Service |
| Demarest | Jeffery R. | University of Arkansas at Fayetteville |
| Desrochers | Patrick | Univ. of Central Arkansas |
| Doran | Ronald H. | Harding University |
| Dorris | Peggy Rae | Henderson State University |
| Doster | Robert H. | Ark. Highway & Transp. Dept. |
| Douglas | Marian | University of Arkansas at Little Rock |
| Duhart | Benjamin T. | University of Arkansas at Pine Bluff |
| Dunn | Jane | Henderson State University |
| Dussourd | David | University of Central Arkansas |
| Edwards | Richmond | |
| Eichenberger | Rudolph J. | Southern Arkansas University |
| Eldridge | Hudson B. | University of Central Arkansas |
| Engelken | Robert | Arkansas State University |
| England | Don | Harding University |
| Epperson | Claude E. | University of Arkansas/Medical Sciences |
| Fifer | E. Kim | University of Arkansas/Medical Sciences |
| Fijan | Nikola | Univ. of Arkansas at Pine Bluff |
| Fletcher | M. Doug | Riceland Foods Inc. (ASU) |
| Floyd | E. P. (Perk) | U.S. Public Health Service |
| Foti | Thomas L. | Natural Heritage Commission |
| Freiley | Kenneth | University of Central Arkansas |
| Fuller | Gary | University of Arkansas at Little Rock |
| Gagen | Charlie | Arkansas Tech University |
| Gaiser | Jack | University of Central Arkansas |
| Gentry | Joe P. | Arkansas Science & Technology Authority |
| Gildseth | Wayne | Southern Arkansas University |
| Gilmore | David F. | Arkansas State University |
| Gilmour | John T. | University of Arkansas at Fayetteville |
| Goforth | Calvin | Univ. of Arkansas at Fayetteville |
| Goforth | R. R. | University of Arkansas at Fayetteville |
| Gooch | Jan W. | Georgia Institute of Technology |
| Gray | Wayne L. | University of Arkansas/Medical Sciences |
| Green | Reid | U.S. Geological Survey |
| Griffin | Edmond E. | University of Central Arkansas |
| Griggs | Gaston | John Brown University |

Secretary's Report

| LAST NAME | FIRST MI | INSTITUTION | LAST NAME | FIRST MI | INSTITUTION |
|--------------|---------------|---|-------------|--------------|---|
| Hanebrink | Earl L. | Arkansas State University -- retired | Moore | Phillip | Arkansas Highway & Transportation Dept. |
| Harris | John L. | Arkansas Highway & Transportation Dept. | Moore | Jewel | University of Central Arkansas |
| Harvey | Michael J. | Tennessee Tech University | Morgans | Leland F. | University of Arkansas at Little Rock |
| Hawk | Roger M. | University of Arkansas at Little Rock | Moss | Linda | |
| Hemmati | Mustfa | Arkansas Tech University | Murphy | Michael | Arkansas State University |
| Henson | Stanley | Arkansas Tech University | Mwasi | Lawrence M. | Univ. of Arkansas at Pine Bluff |
| Hilburn | Larry R. | Black River Technical College | Nagappa | H. Y. | Univ. of Arkansas at Pine Bluff |
| Hinck | Larry | Arkansas State University | Nave | Paul | Arkansas State University |
| Hirschi | Dean | University of Central Arkansas | Neal | Joseph C. | U. S. Forest Service |
| Hite | Maxine R. | | Nehus | Nathaniel | Ark. Dept. Pollution Control & Ecology |
| Hodges | Howard | University of Arkansas at Little Rock | Nelson | Thomas | Arkansas Tech University |
| Holt | Anthony | Arkansas State University | Nordeen | Russell | University of Arkansas at Monticello |
| Hood | William G. | University of Arkansas at Little Rock | O'Brien | Timothy J. | University of Arkansas/Medical Sciences |
| Huang | Feng Hou | University of Arkansas at Fayetteville | Oosterhuis | Derrick M. | University of Arkansas at Fayetteville |
| Hudson | M. Keith | University of Arkansas at Little Rock | Orr | Clifton | University of Arkansas/Pine Bluff |
| Huey | Jim | University of Arkansas at Monticello | Owen | Wilbur | University of Central Arkansas |
| Huffman | Jannie | Arkansas State University | Owens | Don R. | University of Central Arkansas |
| Huggins | Julie A. | East Arkansas Community College | Palmer | Bryan D. | Henderson State University |
| Hughes | Charles A. | Arkansas State University | Parsons | Barbara | Univ. of Arkansas at Little Rock |
| Hurlburt | Barry K. | Univ. of Arkansas for Medical Sciences | Paulissen | Leo J. | University of Arkansas at Fayetteville |
| Huss | Martin | Arkansas State University | Paulissen | Mark A. | McNeese State University |
| Hyatt | Philip E. | Savannah River Forest Station | Peck | John D. | University of Central Arkansas |
| Igietseme | Joseph U. | University of Arkansas/Medical Sciences | Pennington | Carlos H. | USAE Waterways Experiment Station |
| Ison | Celia | | Peterson | Charlotte A. | Veterans Admin. Hospital |
| Jalaluddin | M. D. | University of Arkansas at Pine Bluff | Piper | Ed | University of Arkansas |
| Jamieson | David | Ark. St. Univ.-Beebe/Newport | Plummer | Michael V. | Harding University |
| Jansma | Harriet | University of Arkansas at Fayetteville | Pray | Harold | University of Central Arkansas |
| Jeffries | Douglas L. | University of the Ozarks | Price | Mazo | University of Arkansas at Pine Bluff |
| Jenness | Jeff | Arkansas State University | Prince | Denver L. | University of Central Arkansas |
| Jimerson | David | Arkansas State University | Quartucci | Gregory M. | Burns & McDonnell |
| Johnson | Ronald | Arkansas State University | Rasmussen | James A. | Southern Arkansas University |
| Johnson | Michael I. | Nettleton High School | Reynolds | Ruby S. | University of the Ozarks, retired |
| Johnson | Hugh | Southern Arkansas University | Richards | Edward L. | Arkansas State University |
| Johnson | George P. | Arkansas Tech University | Rodgers | Michael R. | Ark. Dept. Pollution Control & Ecology |
| Jones | Suzanne M. | Arkansas State University | Roe | Amy L. | Nat. Center for Toxicological Research |
| Justice | Jay | Ark. Dept. Pollution Control & Ecology | Roop | Marty | University of Arkansas/Medical Sciences |
| Kane | Cynthia J.M. | Univ. of Arkansas for Medical Sciences | Rowe | Marsha | Stamps High School |
| Kaplan | Arnold | | Runge | Steven W. | University of Central Arkansas |
| Karlin | Alvan A. | University of Arkansas at Little Rock | Sanders | Terry A. | Taylor High School |
| Kehler | Philip L. | University of Arkansas at Little Rock | Sealander | John A. | University of Arkansas at Fayetteville |
| Kennedy | Bud | Arkansas State University | Setliff | Frank L. | University of Arkansas at Little Rock |
| Khan | Shaheen | University of Arkansas at Pine Bluff | Shade | Elwood B. | University of Arkansas at Monticello |
| Kleve | Maurice G. | University of Arkansas at Little Rock | Shaikh | Ali U. | University of Arkansas at Little Rock |
| Kluender | Richard | University of Arkansas at Monticello | Sharp | J. Craig | Univ. of Central Arkansas |
| Knight | Frank M. | University of the Ozarks | Shepherd | William H. | Arkansas Natural Heritage Comm. |
| Knighten | Pat | Arkansas Game & Fish Commission | Siegel | Samuel | University of Arkansas at Fayetteville |
| Koepp | Roger E., III | University of Arkansas at Fayetteville | Sifford | Dewey H. | Arkansas State University |
| Komorowski | Richard A. | University of Arkansas/Medical Sciences | Simpson | Kim | Arkansas Children's Hospital |
| Kopper | Randall A. | Hendrix College | Skinner | Robert | |
| Kral | Timothy | University of Arkansas at Fayetteville | Smith | Edwin B. | University of Arkansas at Fayetteville |
| Krause | Paul | University of Central Arkansas | Smith | Kimberly G. | University of Arkansas at Fayetteville |
| Lane | Forrest E. | University of Arkansas at Fayetteville | Smith, Jr. | Roy J. | U. S. D. A./Univ. of Arkansas |
| Lanza | Janet | Univ. of Arkansas at Little Rock | Snow | L. Dale | Louisiana Tech University |
| Lavers | Norman | Arkansas State University | Snyder | David G. | University of Arkansas at Monticello |
| Lejeune | J. K. | Red River Technical College | Spiegel | Frederick W. | University of Arkansas at Fayetteville |
| Lee | Linda A. | Pocahontas Middle School | Standage | Richard W. | U. S. Forest Service |
| Lewis | Carolyn | Arkansas Tech University | Steward | T. W. | Union University |
| Lindquist | David | University of Arkansas at Little Rock | Stoeckel | Joseph N. | Arkansas Tech University |
| Linnstaedter | Jerry L. | Arkansas State University | Sundell | Eric | University of Arkansas at Monticello |
| Lockhart | J. Mitchell | University of Arkansas at Fayetteville | Sutherland | Mark | Hendrix College |
| Lockhart | Brian | University of Arkansas at Monticello | Sutton | Keith | Hendrix College |
| Lockley | Judy | Marked Tree Public Schools | Swindell | Robert T. | University of Arkansas at Little Rock |
| Lortz | David | Univ. of Arkansas at Monticello | Tappe | Phil | University of Arkansas at Monticello |
| Lynch | Thomas J. | University of Arkansas at Little Rock | Taylor | William S. | University of Central Arkansas |
| Mackey | James | Harding University | TeBeest | David O. | University of Arkansas at Fayetteville |
| Malasri | Siripong | Christian Brothers University | Thompson | Lyell | University of Arkansas at Fayetteville |
| Manion | Jerry | University of Central Arkansas | Thurmond | John T. | University of Arkansas at Little Rock |
| Matthews | H. Michael | Henderson State University | Timmerman | Dan | Arkansas State University |
| Mazumder | M. K. | University of Arkansas at Little Rock | Timmerman | Lorraine | Van-Cove High School |
| McAllister | Chris T. | Veterans Affairs Medical Center | Timmerman | Rudy | Rich Mountain Community College |
| McAllister | Russell B. | Ark. Dept. Pollution Control & Ecology | Trauth | Stanley E. | Arkansas State University |
| McCarty | Clark W. | Ouachita Baptist University (retired) | Trautwein | Norman | Arkansas State University |
| McDaniel | V. Rick | Arkansas State University | Tull | Dalena | University of Central Arkansas |
| McLemore | John A. | USDA, Forest Service | Tumilson | Renn | Henderson State University |
| McMasters | Dennis W. | Henderson State University | Vere | Victor K. | Arkansas Tech University |
| Meeks | David | Westark Community College | Walker | Richard B. | University of Arkansas at Pine Bluff |
| Mehta | Rahul | University of Central Arkansas | Walker | Stephen A. | Eastern Kentucky University |
| Mink | Lawrence A. | Arkansas State University | Weaver | K. Casey | University of Central Arkansas |
| Mitchell | Richard S. | Arkansas State University | Webb | Jerry | University of Arkansas at Monticello |
| Mittelstaedt | Roberta A. | National Center for Tox. Research | Weidemann | G. J. | University of Arkansas at Fayetteville |
| Mittelstaedt | James S. | | Wennerstrom | David | University of Arkansas/Medical Sciences |
| Montague | Warren | | Wennerstrom | Delores | Pulaski Academy |
| Moody | Bonnie | Henderson State University | Wiebers | Todd | Henderson State University |

Arkansas Academy of Science

| LAST NAME | FIRST MI | INSTITUTION | LAST NAME | FIRST MI | INSTITUTION |
|-------------|------------|---|-----------|------------|--|
| Willhide | J. D. | Arkansas State University | Peck | James H. | University of Arkansas at Little Rock |
| Williams | Richard A. | University of Arkansas/Monticello | Rapp | Michael W. | University of Central Arkansas |
| Willis | Rebecca L. | Southern Arkansas University | Rickett | John D. | University of Arkansas at Little Rock |
| Wilson, Jr. | Edmond W. | Harding University | Robison | Henry W. | Southern Arkansas University |
| Wold | Donald C. | University of Arkansas at Little Rock | Saughey | David A. | U. S. Forest Service |
| Wolf | Duane C. | University of Arkansas at Fayetteville | Sewell | Stephen A. | University of Mississippi |
| Woolverton | Heather L. | University of Central Arkansas | Spears | Betty M. | Ouachita Mtns. Biological Station |
| Wright | Robert D. | University of Central Arkansas | Spears | Richard K. | Ouachita Mtns. Biological Station |
| Wyatt | Bill | Arkansas State University | Templeton | George E. | University of Arkansas at Fayetteville |
| Yang | Chia C. | Arkansas Tech University | Tucker | Gary | FTN Associates |
| Yang | Dominic T. | University of Arkansas at Little Rock | Wickliff | James L. | University of Arkansas at Fayetteville |
| York | J. Lyndal | University of Arkansas/Medical Sciences | Wiley | Robert W. | University of Arkansas at Monticello |
| Young | David A. | Fayetteville Public Schools | | | |
| Zachry | Doy L. | University of Arkansas/Fayetteville | | | |
| Zimmer | Steven W. | Arkansas Tech University | | | |

SPONSORING MEMBERS

| | | |
|----------------|------------|---|
| Bean | Judith A. | Harmony Grove High School |
| Bradley | Richard | Univ. of Arkansas at Little Rock |
| Braithwaite | Wilfred J. | University of Arkansas at Little Rock |
| Davies | David L. | University of Arkansas/Medical Sciences |
| England-Whaley | Lawana | Arkansas State University |
| Hardin | Joyce M. | Hendrix College |
| Howick | Lester C. | University of Arkansas at Fayetteville |
| Sharrah | Paul C. | University of Arkansas at Fayetteville |

SUSTAINING MEMBERS

| | | |
|---------------|------------|---|
| Barton | Harvey E. | Arkansas State University |
| Board | Veryl | Arkansas College |
| Bollinger | Julia Reed | Arkansas State University |
| Cleaveland | Malcolm K. | University of Arkansas at Fayetteville |
| Dale, Jr. | Edward E. | University of Arkansas at Fayetteville |
| Darsey | Jerry A. | University of Arkansas at Little Rock |
| Farris | Jerry L. | Arkansas State University |
| Gandy | Lisa C. | FTN Associates |
| Glover | Mattie | University of Arkansas at Pine Bluff |
| Johnston | Perry Max | University of Arkansas at Fayetteville |
| Karnes | Mark | The Ross Foundation |
| Marsh | Daniel L. | Henderson State University |
| McConnell | Rose | University of Arkansas at Monticello |
| Meyer | Richard | University of Arkansas at Fayetteville |
| Nisbet | Alex R. | Ouachita Baptist University |
| Peacock | Lance | The Arkansas Nature Conservancy |
| Price | Alan D. | Ark. Dept. Pollution Control & Ecology |
| Rothrock, III | Perry C. | University of Arkansas/Medical Sciences |
| Sustich | Andrew T. | Arkansas State University |
| Tendeku | Felix K. | University of Arkansas at Pine Bluff |
| Watson | Robert L. | University of Arkansas at Little Rock |
| Wear | James O. | Veterans Admin., No. Little Rock Div. |
| Willingham | William M. | University of Arkansas at Pine Bluff |

LIFE MEMBERS

| | | |
|------------|------------|---|
| Anderson | Robbin C. | University of Arkansas at Fayetteville |
| Bacon | Edmond J. | University of Arkansas at Monticello |
| Chittenden | David | Arkansas State University |
| Cotton | Calvin | Geographics Silk Screening Co. |
| Davis | Leo Carson | Southern Arkansas University |
| Dilday | Robert H. | University of Arkansas at Fayetteville |
| Draganjac | Mark | Arkansas State University |
| Edson | Jim | University of Arkansas at Monticello |
| England | Daniel R. | Southern Arkansas University |
| Evans | William L. | University of Arkansas at Fayetteville |
| Fribourgh | James H. | University of Arkansas at Little Rock |
| Fry | Arthur | University of Arkansas at Fayetteville |
| Geren | Collis R. | University of Arkansas at Fayetteville |
| Giese | John | Ark. Dept. of Pollution Control & Ecol. |
| Godwin | Walter E. | University of Arkansas at Monticello |
| Guenther | Joe M. | University of Arkansas at Monticello |
| Harp | George L. | Arkansas State University |
| Harp | Phoebe A. | Arkansas State University |
| Heidt | Gary A. | University of Arkansas at Little Rock |
| Helms | Ronnie | University of Arkansas at Fayetteville |
| Jacobs | Carol A. | |
| James | Douglas | University of Arkansas at Fayetteville |
| Johnson | Arthur A. | Hendrix College |
| Mattison | Donald R. | University of Pittsburgh |
| McDaniel | Roland E. | FTN Associates, Ltd. |
| Moore | Clementine | |
| Northrop | Gaylord M. | University of Arkansas at Little Rock |
| Palko | Tom | Arkansas Tech University |

STUDENT MEMBERS

| | | |
|-----------------|-----------------|---|
| Adair | Robert E. | University of Arkansas/Fayetteville |
| Allen | Michelle | University of Arkansas at Little Rock |
| Ashburn | Charles | University of Arkansas at Little Rock |
| Baber | Connie | Henderson State University |
| Bean | Ashley | Hendrix College |
| Bearden | Stacy Lee | Arkansas State University |
| Bray, Jr. | James R. | Henderson State University |
| Caster | Paul | Univ. of Arkansas at Little Rock |
| Clark | Mark | Henderson State University |
| Clark | Murray R. | University of Arkansas at Little Rock |
| Davis | Angela Wynette | University of Arkansas at Pine Bluff |
| Dukes | Rebecca | |
| Ekworomadu | Charles | University of Arkansas for Medical Sciences |
| Elder | Ginger | Arkansas State University |
| Eller | David | Henderson State University |
| Everett | William R. | University of Arkansas at Fayetteville |
| Fletcher, III | Thomas M. | University of Arkansas/Medical Sciences |
| Freeman | Leah | Arkansas State University |
| Garner | Heath | Arkansas State University |
| George | Steven G. | Northeast Louisiana University |
| Gillum | Russell | University of Arkansas at Little Rock |
| Haider | Neena | Arkansas State University |
| Hansen | Debra | |
| Harris | Kristi | Arkansas State University |
| Heckathorn, Jr. | Walter | University of Arkansas |
| House | Kelly L. | Garland Co. Comm. Coll./H.S.U. |
| Huskins | Mark W. | Arkansas Tech University |
| Isenberg | Seth B. | University of Arkansas at Fayetteville |
| Jiles | Denise | Arkansas State University |
| Jones | Kimberly Rhae | University of Arkansas at Fayetteville |
| Khan | Imran | Arkansas State University |
| King | Chris | University of Arkansas |
| Martin | Randy | University of Arkansas at Little Rock |
| Mayes | Eric | Arkansas State University |
| Metcalf | Chris | Northeast Louisiana University |
| Mooney | Donna | University of Arkansas/Little Rock |
| Murray | Susan | Arkansas Natural Heritage Comm. |
| Persons | Cecil C. | University of Arkansas at Little Rock |
| Posey | William R., II | Arkansas State University |
| Pringle | John | University of the Ozarks |
| Russell | William A., Jr. | University of Arkansas at Little Rock |
| Ryan | John M. | University of Arkansas/Fayetteville |
| Sims | Jay | University of Arkansas/Little Rock |
| Smith | Jerome V. | University of Arkansas at Little Rock |
| Smith | Anna | Henderson State University |
| Snider | D. H. | University of Arkansas at Little Rock |
| Stickel | Sara | Arkansas State University |
| Townsend | Teddy L. | University of Central Arkansas |
| Whitehead | Greg A. | Henderson State University |
| Wilkins | Phillip K. | Arkansas State University |
| Williams | Michelle | University of Arkansas/Little Rock |
| Williams | Gregg R. | Arkansas State University |
| Withgott | James H. | University of Arkansas at Fayetteville |
| Yang | Zibin | University of Arkansas at Little Rock |